



WEB APPLICATION FIREWALL MANAGEMENT

FortiWeb Manager Administration Guide

VERSION 5.6

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October 26, 2016

FortiWeb Manager 5.6 Administration Guide

1st Edition

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Introduction

FortiWeb Manager centralizes the configuration of FortiWeb appliances. Its web UI replaces the local interfaces on FortiWeb appliances in your network, allowing you to create, deploy and update their configurations remotely.

Instead of creating a local configuration on a remote FortiWeb, the manager allows you to create a configuration that you can install on one or more FortiWebs. To make changes to a configuration, edit the FortiWeb Manager package (or create a new one) and deploy the updated package to the remote appliance.

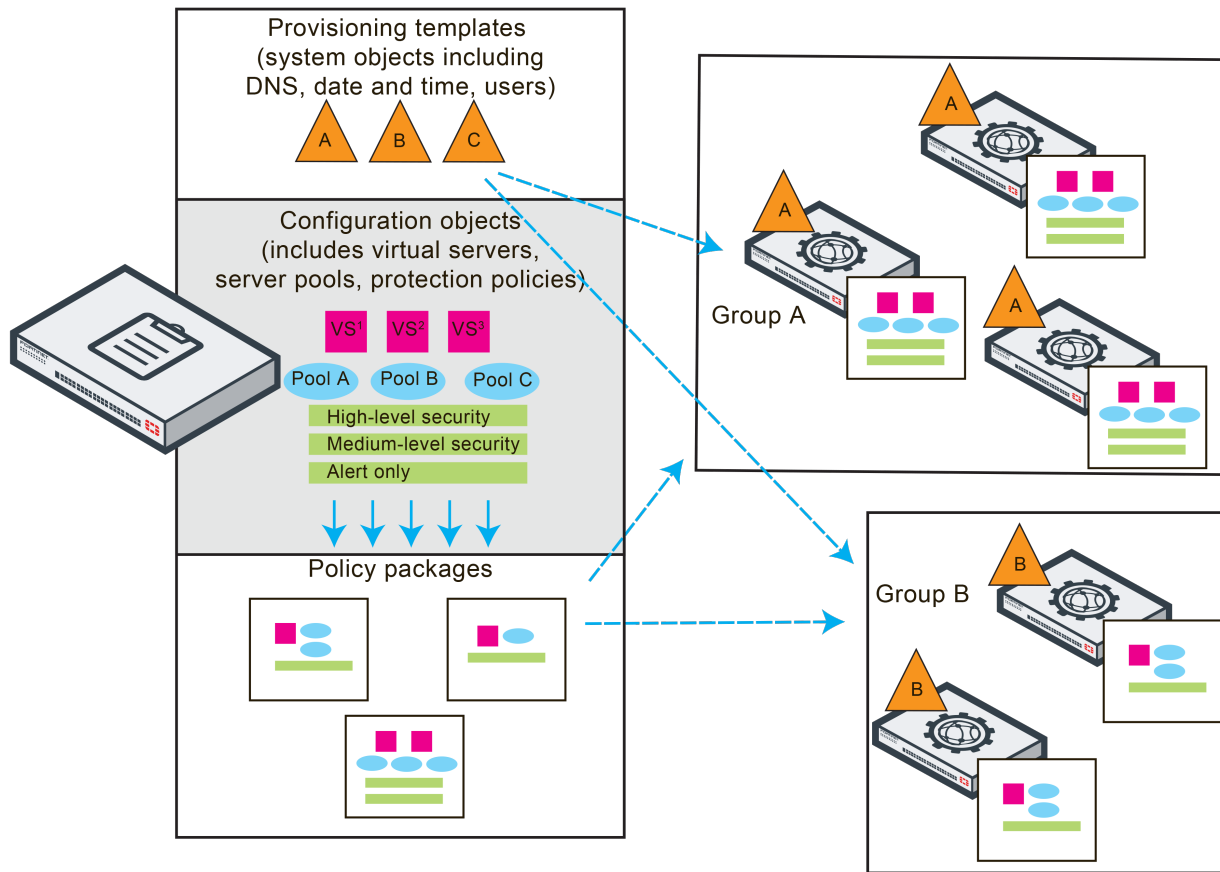
The configuration you install using FortiWeb Manager replaces any default or existing configuration on the remote appliance. However, you can revert to the previous configuration using the installation logs. (See [Package Install on page 26](#) and [Templates Assign on page 27](#)).

Using FortiWeb Manager to configure devices

In FortiWeb Manager, FortiWeb configuration is organized in two parts:

- **Provisioning templates** – System objects including DNS, SNMP, and security settings. In most cases, you set these settings during an initial deployment and do not update them often.
- **Policy packages** – Contain one or more policies you create using configuration objects such as virtual servers, server pools, and web protection policies. You create these configuration objects separately and add them to the policies found in packages as needed.

To update configurations you installed using policy packages, edit the configuration objects and policies as needed, and then install the updated package.



Web UI organization

You perform tasks that configure remote FortiWeb devices using the following two tabs:

- **Device Manager tab** – Allows you to perform the following provisioning tasks:
 - Create a list of FortiWeb appliances available for configuration. To help you organize your devices, you can add a device to a group when you add it.
 - Change an individual configuration setting on an appliance.
 - Create and assign reusable system templates that contain values for the settings that are most commonly used when you provision an appliance, including DNS, SNMP, and security settings.
 - Upload firmware and data analytics definitions files and use the uploaded files to upgrade the FortiWeb appliances in a group.
- **Policy & Objects tab** – Allows you to perform the following policy creation and installation tasks:
 - Create configuration objects such as virtual servers, server pools, and web protection profiles.
 - Create or update policy packages. You create the package policies using the pre-built configuration objects.
 - Install the policy packages on one or more FortiWeb appliances.

The FortiWeb Manager web UI also has a **System Settings tab** that allows you to monitor FortiWeb Manager and to perform tasks such as user management and high availability configuration.

What's new

The list below contains new or changed features for FortiWeb Manager version 5.4 and later.

FortiWeb Manager 5.6

- **FortiWeb 5.6 support** — FortiWeb Manager 5.6 supports FortiWeb 5.6 only. It allows you to configure all new and enhanced functionality introduced with FortiWeb 5.6.
- **Interactive policy package installation** — When you install a policy package on a FortiWeb, FortiWeb Manager now prompts you to resolve any conflicts between the configuration in the package and the configuration on the device. You can preserve the configuration item on the device, overwrite it with the package configuration, or create a new item without leaving the installation process.

In addition, if the installation generates error messages, the FortiWeb Manager installation process now displays information about the error and provides options to fix it or cancel the installation process, either with or without preserving any changes FortiWeb Manager has already made.

See [Package installation on page 34](#).

- **Import provisioning templates and policy packages** — You now create a new FortiWeb Manager provisioning template or policy package, or update an existing one, by importing the configurations from a FortiWeb.

Importing policy package from a device involves a process that allows you to establish the mappings between physical interfaces of the device and FortiWeb Manager interface objects.

See [Import configurations or template from FortiWeb on page 38](#).

- **FortiGuard license status and updates** — The new FortiGuard tab allows you to view the status of the FortiGuard services on the FortiWeb appliances it manages, as well as updating the services.

See [License Status on page 42](#).

- **Firmware and Data Analytics files management** — The new FortiGuard tab allows you to import firmware images and data analytics files that you can then restore to an individual FortiWeb or all the FortiWeb appliances in a device group. You use the new Firmware Management tab on the Device Manager tab to display the firmware restore history for a device.

See [Firmware Images on page 42](#) and [Data Analytics on page 43](#).

- **Per-device interface mapping** — FortiWeb Manager now allows you to map interfaces in a policy package to a specific interface on an individual FortiWeb device. When you install the package, FortiWeb Manager substitutes the interface name you specified for that device for the interface name found in the package.

See [Per-Device Mapping in Interface on page 36](#).

- **Expanded evaluation license** — The FortiWeb Manager evaluation license now allows you to configure up to 10 FortiWeb devices.

FortiWeb Manager 5.5 Patch 1

- **FortiWeb 5.5 Patch 3 support** — FortiWeb Manager 5.6 supports FortiWeb 5.5.3 only. It allows you to configure all new and enhanced functionality introduced with FortiWeb 5.5.3.

- **Backup and restore** — You can now back up your FortiWeb Manager configuration to a local location or FTP server and use the backed-up file to restore the configuration.
See [Backup & restore on page 19](#) and [FTP Backup on page 19](#).
- **Read-only administrators** — You now configure an administrator with Read-Write or Read Only access.
See [Administrators on page 18](#).
- **System time enhancements** — For the system time, you can now select any time zone, synchronize to an NTP server, and automatically adjust for daylight saving time.
See [System Time on page 20](#).
- **Configure network interfaces using the web UI** — You can now use the web UI to configure the FortiWeb Manager network interfaces.
See [Interface on page 13](#) and [Static Route on page 14](#).
- **Amazon Web Services (AWS) support** — FortiWeb Manager is now available as an Amazon Machine Image (AMI) for AWS deployment.

FortiWeb Manager 5.5

- **FortiWeb 5.5 Patch 1 support** — FortiWeb Manager 5.6 supports FortiWeb 5.5.1 only. It allows you to configure all new and enhanced functionality introduced with FortiWeb 5.5.1.
- **Upgrading gateways**
 - **Upgrade for multiple gateways** — You can now use uploaded firmware and data analytics definitions files to upgrade all FortiWeb appliances in a group in a single operation. The group upgrade operation generates a message in the FortiWeb Manager event log.
 - **Automatic configuration updates** — When it upgrades a gateway, FortiWeb Manager now also attempts to update the gateway configuration to match the features of the newer firmware version. It deletes configurations that it cannot successfully update.
- **Support for Hyper-V** — You can now deploy FortiWeb Manager on the Microsoft Hyper-V hypervisor.

FortiWeb Manager 5.4.1

- **High Availability** — You can group multiple FortiWeb Manager VM appliances together as a high availability (HA) cluster. HA for FortiWeb Manager uses the same configuration settings as HA for FortiWeb appliances, except for the physical port monitoring options.
See [HA on page 14](#).
- **FortiWeb 5.4.1 support** — FortiWeb Manager supports all new and enhanced functionality introduced with FortiWeb 5.4.1.
 - **SNMP version 3 support** — When you use the Device Manager tab to configure an SNMP community, you can now enable the traps for SNMP v3 instead or in addition to SNMP v1 and v2c.
 - **Policy Sessions widget** — The Policy Sessions widget on the Status dashboard now displays counts of the current connections and connections per second by policy.
- **Real Time Monitor widget** — You can now view the Real Time Monitor widget when you use the Device Manager tab to access a remote appliance's Status Dashboard.
- **Logging**
 - **Template assign and package install logs** — The new logs generate an entry each time you assign a template or install a package. Each entry includes a record of the previous configuration and information

such as the template or package name, the device name, and the time of installation. You can use this entry to revert to the previous configuration or download the current or previous installation for troubleshooting purposes.

See [Package Install on page 26](#) and [Templates Assign on page 27](#).

- **Event Log** — On the System Settings tab, go to **Logs > Event** to view a record of user actions such as login, logout, add or delete user, and change password.

See [Event on page 27](#).

- **3000E & 4000E support** — FortiWeb Manager now supports the additional settings used by the FortiWeb 3000E and 4000E models.

FortiWeb Manager 5.4

- **FortiWeb Manager-VM** — The standalone FortiWeb Manager-VM replaces the central management component that was available in some earlier releases of FortiWeb.

This new central management tool is not available as an appliance-based product and does not include FortiWeb.

- **Enhanced web UI** — The new web UI has tabs and specialized menus that divide management tasks into provisioning, individual setting updates, and policy creation and installation.
- **Device management tab** — The new Device Manager tab allows you to organize your FortiWeb appliances into groups, change individual appliance configuration settings, and provision a FortiWeb by creating and applying a template.
- **Policy & Objects tab** — The new Policy & Objects tab allows you to upload the FortiWeb policies using reusable packages. You create these packages using configuration objects such as virtual servers, server pools, and web protection profiles. You can create, save, and update both the packages and the objects as needed, and install or reinstall them as needed to apply the policies to multiple devices.
- **Cascading and right-click menus** — When you select an appliance on the Device Manager tab, you can use the **Menu** option to open a cascading menu. This menu allows you to navigate to a specific set of configuration settings quickly. You can right-click device, device group, and policy items in the navigation tree to add new items.
- **Base and unlimited licenses** — New licenses remove the 15-day limit of the evaluation license and allow you to manage either 10 or an unlimited number of FortiWeb devices.

Installation

FortiWeb Manager is a version of FortiWeb-VM that you can deploy on the following hypervisors:

- VMware vSphere ESXi
- Microsoft Hyper-V

For detailed instructions for installing the FortiWeb Manager virtual machine, see the [FortiWeb-VM Installation Guide](#).

Software requirements

FortiWeb Manager 5.6 manages devices running FortiWeb 5.5.3 only.

The web UI works with the following browser versions:

- Internet Explorer 10 or 11
- Firefox 25 or 26
- Chrome 26, 30, 31

Uploading the license

By default, FortiWeb Manager is installed with an evaluation license that allows you to configure 1 FortiWeb.

To continue to use the product after 15 days have passed, or to configure additional gateways, one of the following licenses is required. Neither license has an expiry date:

- **Base** – Add up to 10 devices.
- **Unlimited** – No limit to the number of devices you can add.

You upload the base and unlimited licenses using the CLI. For instructions for configuring access to the CLI, see the [FortiWeb-VM Installation Guide](#).

To upload a FortiWeb Manager license

1. Log in to the CLI using admin and enter the following command:

```
generate computerid
```

2. FortiWeb returns a 16-character code. For example:

```
3FFWH-QS01H-8TVEW-CN6JE
```

3. Go to support.fortinet.com and log in.
4. Click **Asset > Register/Renew**.
5. Enter your license registration code, and then click **Next**.

6. Enter the computer ID you generated earlier, and then click **Next**.
7. Complete any remaining steps in the registration wizard.

The wizard generates a license key. For example:

```
66KW6E7PHP2BPN6TDI4W83V7S9ZV182EITMZ5NOAE2ZMZDISW5Y2GVIV4UE8NU4Q
```

8. Log in to the CLI using **admin** and enter the following command:

```
execute register license <license_key>
```

where **<license_key>** is the key provided by the support site.

After the virtual machine restarts automatically, full FortiWeb Manager functionality is available.

Accessing the web UI

Accessing the FortiWeb Manager web UI is similar to accessing the FortiWeb web UI: in your web browser, enter the IP address of the network interface that you have configured with administrative access .

For detailed instructions for configuring access to the web UI, see the [FortiWeb-VM Installation Guide](#).

System settings

You use the System Settings tab to monitor FortiWeb Manager and to perform tasks such as user management and high availability configuration.

Status

The system status dashboard has some of the same widgets as the FortiWeb web UI.

Like the FortiWeb dashboard, on the System Information widget, you can click **Update** to upload a new version of the FortiWeb Manager firmware.

Interface

The Interface options allow you to configure the network interfaces and change their status.

To access the Interface options, go to **System > Network > Interface**.

A network interface's Status column displays whether the interface is configured to receive or emit packets. Click **Bring Up** or **Bring Down** to change the status.

Link Status indicates the detected physical link status.

To edit a network interface, in the appropriate row, under Action, click **Edit**.

Interface settings

Setting name	Description
Name	The name and media access control (MAC) address of this network interface. The name indicates the associated physical interface (for example, port2).
Addressing mode	Specify whether FortiWeb Manager acquires an IPv4 address for this network interface using DHCP.
IPv4/Netmask	Enter the IP address and subnet mask, separated by a forward slash (/). For example, 192.0.2.2/24. Ensure the IP address is on the same subnet as the network the interface connects to. Two network interfaces cannot have IP addresses on the same subnet.
Description	Optionally, enter information about the interface.

Static Route

The Static Route options allow you to configure a gateway for FortiWeb Manager.

Static routes direct traffic exiting FortiWeb Manager based on the packet's destination — you can specify through which network interface a packet leaves and the IP address of a next-hop router that is reachable from that network interface. Routers are aware of which IP addresses are reachable through various network pathways and can forward those packets along pathways capable of reaching the packets' ultimate destinations. Your FortiWeb Manager itself does not need to know the full route, as long as the routers can pass along the packet.

You configure at least one static route that points to a router, often a router that is the gateway to the Internet. You configure multiple static routes if you have multiple gateway routers (for example, each router receives packets destined for a different subset of IP addresses), redundant routers (for example, redundant Internet/ISP links), or other special routing cases.

However, in most cases, you configure only one route: a default route.

To add a route, go to **System > Network > Static Route**, and then click **Create**.

Static Route settings

Setting name	Description
Destination IP/Mask (IPv4/IPv6)	<p>Enter the destination IP address and network mask of packets that use this static route, separated by a slash (/).</p> <p>Enter 0.0.0.0/0.0.0.0 or ::/0 to create a default route that matches the DST field in the IP header of all packets.</p>
Gateway (IPv4/IPv6)	<p>Enter the IP address of the next-hop router to which FortiWeb Manager forwards packets that match Destination IP/Mask (IPv4/IPv6). Ensure that this router knows how to route packets to the destination IP addresses or forward packets to another router with this information.</p> <p>For a direct Internet connection, this is the router that forwards traffic towards the Internet, and could belong to your ISP.</p>
Interface	Select the network interface through which FortiWeb Manager routes the packets that match Destination IP/Mask (IPv4/IPv6) to the next-hop router.

HA

You can group multiple FortiWeb Manager appliances together as an **active-passive** high availability (HA) cluster. HA for FortiWeb Manager uses the same configuration settings as HA for FortiWeb appliances, except for the physical port monitoring options.

FortiWeb Manager HA is **active-passive**: one appliance is the active appliance (also called the primary, main, or master) and the other appliance is a passive standby (also called the secondary, or slave), which assumes the role of the active appliance only if the active appliance fails.

This guide provides basic information about the FortiWeb Manager HA settings. See the [FortiWeb Administration Guide](#) for detailed HA cluster information, including:

- An overview of HA heartbeat & synchronization mechanisms and behavior
- How HA chooses the active appliance
- HA cluster topology
- Step-by-step configuration
- Troubleshooting

HA requirements

- Two identical FortiWeb Manager appliances (that is, VMs running the same firmware version).
- A valid license for all cluster members. You cannot configure HA with trial licenses.
- vNetwork interfaces that carry heartbeat and synchronization traffic are configured to operate in promiscuous mode and accept MAC address changes.
- Cluster members have the same number of ports and are configured with the same amount of memory and vCPUs.
- Redundant network topology: if the active appliance fails, physical network cabling and routes can redirect web traffic to the standby appliance.
- At least one port on both HA appliances is connected directly, via crossover cables, or through switches.

HA settings

Setting name	Description
Configured HA mode	Select Active-Passive to configure this FortiWeb Manager to an HA cluster.
Group-name	Enter a name that identifies the HA pair. This setting is optional, and does not affect HA function. The maximum length is 35 characters.
Device Priority	Type the priority for this appliance when the HA feature selects the main appliance in the HA pair. The appliance with the lowest value has the highest priority. This setting is optional. The valid range is 0 to 9. The default is 5. When Override is disabled, uptime is more important than this setting when the HA feature selects the primary appliance.
Override	Enable to make Device Priority a more important factor than uptime when the HA feature selects the main appliance.

Setting name	Description
HA Member Group ID	<p>Enter a number that identifies the HA pair.</p> <p>Ensure that both members of the HA pair have the same group ID. If there is more than one HA pair on the same network, ensure each HA pair has a different group ID.</p> <p>Changing the group ID changes the cluster's virtual MAC address.</p> <p>The valid range is 0 to 63. The default value is 0.</p>
Detection Interval	<p>Enter the number of 100-millisecond intervals in each pause between heartbeat packets that the one cluster member sends to the other member. This is also the amount of time that a FortiWeb Manager appliance waits before expecting to receive a heartbeat packet from the other appliance.</p> <p>The HA feature synchronizes this setting between the main appliance and standby appliance.</p> <p>The valid range is 1 to 20 (that is, between 100 and 2,000 milliseconds).</p> <p>Note: Although this setting is synchronized between the main and standby appliances, configure both appliances with the same Detection Interval to prevent a failover from occurring before the initial synchronization.</p>
Heartbeat Lost Threshold	<p>Enter the number of times one of the HA appliances retries the heartbeat and waits to receive HA heartbeat packets from the other HA appliance before it assumes that the other appliance has failed.</p> <p>The HA feature synchronizes this part of the configuration between the main appliance and standby appliance.</p> <p>In most cases, you do not need to change this setting. Exceptions include:</p> <ul style="list-style-type: none"> • Increase the failure detection threshold if the HA feature detects a failure when none has actually occurred. For example, during peak traffic times, if the main appliance is very busy, it might not respond to heartbeat packets in time, and the standby appliance assumes that the main appliance has failed. • Reduce the failure detection threshold or detection interval if administrators and HTTP clients have to wait too long before they can connect through the main appliance, resulting in noticeable down time. <p>The valid range is from 1 to 60.</p> <p>Note: Although this setting is synchronized between the main and standby appliances, configure both appliances with the same Heartbeat Lost Threshold to prevent a failover before the initial synchronization.</p>

Setting name	Description
ARP Packet Numbers	<p>Enter the number of times that the FortiWeb Manager appliance broadcasts extra address resolution protocol (ARP) packets when it takes on the main role. (Even though a new NIC has not actually been connected to the network, FortiWeb Manager does this to notify the network that a new physical port has become associated with the IP address and virtual MAC of the HA pair.) This is sometimes called “using gratuitous ARP packets to train the network,” and can occur when the main appliance is starting up, or during a failover. Also configure ARP Packet Interval.</p> <p>In most cases, you preserve the default value for this setting. Exceptions include:</p> <ul style="list-style-type: none"> • Increase the number of times the main appliance sends gratuitous ARP packets if your HA pair takes a long time to fail over or to train the network. Sending more gratuitous ARP packets can help the failover to happen faster. • You want reduce the amount of traffic produced by a failover. Because gratuitous ARP packets are broadcast, sending them may generate a large amount of network traffic. As long as the HA pair still fails over successfully, you could reduce the number of times gratuitous ARP packets are sent. <p>The valid range is 1 to 16.</p>
ARP Packet Interval	<p>Enter the number of seconds the HA feature waits between each broadcast of ARP packets.</p> <p>In most cases, you preserve the default value of this setting. Exceptions include:</p> <ul style="list-style-type: none"> • Decrease the interval if your HA pair takes a long time to fail over or to train the network. Sending ARP packets more frequently can help the failover to happen faster. • You want reduce the amount of traffic produced by a failover. Because gratuitous ARP packets are broadcast, sending them may generate a large amount of network traffic. As long as the HA pair still fails over successfully, you could reduce the number of times gratuitous ARP packets are sent. <p>The valid range is from 1 to 20.</p>

Setting name	Description
Heartbeat Interface	<p>Select one or more ports on this appliance that the main and standby appliances use to send heartbeat signals and synchronization data to each other (that is, the HA heartbeat link).</p> <p>Connect this port to the same port number on the other member of the HA cluster. For example, if you select port3 for the primary heartbeat link, connect port3 on this appliance to port3 on the other appliance.)</p> <p>Select at least one heartbeat interface on each appliance in the HA cluster. You cannot re-use ports that currently have an IP address assigned for other purposes as a heartbeat link.</p> <p>Tip: If enough ports are available, you can select both a primary heartbeat interface and a secondary heartbeat interface on each appliance in the HA pair to provide heartbeat link redundancy. (You cannot use the same port as both the primary and secondary heartbeat interface on the same appliance, as this is incompatible with the purpose of link redundancy.)</p> <p>Note: If a switch is used to connect the heartbeat interfaces, the heartbeat interfaces must be reachable by Layer 2 multicast.</p>

HA Status

To determine which appliance currently has the role of the main appliance, on the System Settings tab, click **Status**. The **System Information** widget displays whether the appliance is operating as the main or standby appliance.

Administrators

The Administrators options allow you to create an administrator account, specify the method it uses to log in to FortiWeb Manager, and assign its access level. For local users, you also use these options to assign and change account passwords.

To access the Administrators options, go to **System > Admin > Administrators**.

Administrator accounts are either local users who log in with a password that you assign in the Administrator options, or a remote user who authenticates via an LDAP or RADIUS server.

To associate an administrator account with a remote server, first create the remote server query and add to an Admin Group. Then, use the administrator account configuration to select the Admin Group that contains the remote server query to use.

For information on creating LDAP or RADIUS queries, see [Remote Server \(LDAP and RADIUS\) on page 22](#).

For information on creating administrative groups, see [Admin Group on page 21](#).

Administrators settings

Setting name	Description
Name	<p>Enter a name that identifies the administrator account.</p> <p>This is the user name that the administrator provides when he or she logs in to the CLI or web UI. If using an external authentication server such as RADIUS, FortiWeb Manager passes this name to the server via a query found in the group specified by Admin User Group.</p>
Type	<p>Select the type of user:</p> <ul style="list-style-type: none"> • Local User — The account logs in using the name and password specified in the FortiWeb Manager Administrators settings. • Remote User — The account logs in via a remote server query. The query to use is a member of the admin group specified by Admin User Group.
Password/ Confirm Password	<p>Specify the password the administrator uses to log in to FortiWeb Manager.</p> <p>Available only when Type is Local User.</p>
Admin User Group	<p>Select the group that contains the LDAP or RADIUS query the account uses to log in to FortiWeb Manager.</p> <p>For information on creating administrative groups, see Admin Group on page 21.</p> <p>Available only when Type is Remote User.</p>
Access Profile	<p>Specify whether the account can create, edit, or delete FortiWeb Manager configuration items (Read-Write) or only view the configuration (Read Only).</p>

Backup & restore

To access the backup and restore options, go to **System > Maintenance > Backup & Restore**.

The backup option allows you to export a copy of the FortiWeb Manager configuration as a gzip compressed tar archive file. The download task is handled by your web browser.

The restore option allows you to restore or replace your FortiWeb Manager configuration with the configuration stored in an backup archive file.

Alternatively, you can export the backup file to an FTP server, either manually or automatically at a scheduled time. See [FTP Backup on page 19](#).

FTP Backup

The FTP backup option allows you to export a copy of the FortiWeb Manager configuration as a gzip compressed tar archive file to an FTP or SFTP server, either manually or automatically at a scheduled time.

To add a one-time or scheduled FTP backup, go to **System > Maintenance > FTP Backup** and then click **Create**.

To restore the configuration, move or copy the backup archive file from the FTP server to local storage, and then go to **System > Maintenance > Backup & Restore** to access the restore option.

You can also export the backup file manually, to local storage. See [Backup & restore on page 19](#).

FTP Backup settings

Setting name	Description
Name	Enter a name that identifies the FTP backup.
FTP Protocol	Select whether to connect to the server using FTP or SFTP.
FTP Server	Enter either the IP address or fully qualified domain name (FQDN) of the server.
FTP Directory	Enter the directory path on the server where you want to store the backup file.
FTP Authentication	Enable if the server requires that you provide a user name and password for authentication, rather than allowing anonymous connections.
FTP User	Enter the user name that the FortiWeb appliance will use to authenticate with the server. Displayed only if you select FTP Authentication .
FTP Password	Enter the password the FTP user account uses. Displayed only if you select FTP Authentication
Schedule Type	Select either: <ul style="list-style-type: none"> Now — Initiate the backup immediately. Daily — Schedule a recurring backup for a specific day and time of the week.
Days	Select the specific days when you want the backup to occur. Available only when Schedule Type is Daily .
Time	Select the specific hour and minute of the day when you want the backup to occur. Available only when Schedule Type is Daily .

System Time

You can set the FortiWeb Manager clock manually or by synchronizing it with a Network Time Protocol (NTP) server. The System Time settings also allow you to select an appropriate time zone.

System Time settings

Setting name	Description
System Time	Displays the system time when you accessed the settings. Click Refresh to see the current system time.
Time Zone	Select the time zone where FortiWeb Manager is located.
Automatically adjust clock for daylight saving changes	Select to configure FortiWeb Manager to automatically adjust its own clock when the specified time zone changes between daylight saving time (DST) and standard time.
Set Time	Select and click the field to choose a specific date and time.
Synchronize with NTP Server	<p>Select to set the system time using the specified Network Time Protocol (NTP) server.</p> <p>To allow FortiWeb Manager can communicate with the NTP server, ensure it can connect to the Internet on UDP port 123.</p>
Server	<p>Enter the IP address or domain name of an NTP server or pool (for example, <code>pool.ntp.org</code>). To find an NTP server that you can use, go to http://www.ntp.org.</p> <p>Available only when Synchronize with NTP Server is selected.</p>
Sync Interval	<p>Enter how often in minutes FortiWeb Manager synchronizes its time with the NTP server. For example, enter 1440 to synchronize FortiWeb Manager with the time server once each day.</p> <p>Available only when Synchronize with NTP Server is selected.</p>

Admin Group

The Admin Group settings allow you to associate an LDAP or RADIUS server query with an administrator account. The administrator can then log in to FortiWeb Manager via the associated server.

To associate an LDAP or RADIUS server query with an administrator account, first create the remote server configuration and add to an Admin Group. Then, use the administrator account configuration to select the Admin Group that contains the remote server configuration to use.

For information on creating LDAP and RADIUS queries, see [Remote Server \(LDAP and RADIUS\) on page 22](#).

For information on creating administration accounts, see

To create an admin group and add an LDAP or RADIUS server configuration to it

Go to **User > User Group > Admin Group**, and then click **Create**.

Enter a name for the group, and then click **OK**.

In the row for the group you just created, click **Edit**.

Click **Create**.

For User Type, select the type of authentication to use.

For Name, select the name of an LDAP or RADIUS query.

For information on creating LDAP or RADIUS queries, see [Remote Server \(LDAP and RADIUS\) on page 22](#).

Click **OK**.

Remote Server (LDAP and RADIUS)

The Remote Server options allow you to configure communication between FortiWeb Manager and an LDAP server, a RADIUS server, or both.

To associate an LDAP or RADIUS server configuration with an administrator account, you first add the remote server configuration to an Admin Group. Then, use the administrator account configuration to select the Admin Group that contains the remote server configuration to use. The administrator can then log in to FortiWeb Manager via the associated server.

For information on creating administrative groups, see [Admin Group on page 21](#).

For information on creating administration accounts, see

To create an LDAP query, go to **User > Remote Server > LDAP Server**, and then click **Create**.

To create a RADIUS query, go to **User > Remote Server > RADIUS Server**, and then click **Create**.

LDAP Server settings

Setting name	Description
Name	Enter a name that identifies the LDAP communication configuration.
Server IPv4/IPv6	Enter the IP address of the LDAP server.
Server Port	Enter the LDAP listening port number. The default port number is determined by the value of Secure Connection. In most cases, port 389 is used for non-secure connections or for STARTTLS-secured connections, and port 636 is used for SSL-secured (LDAPS) connections.

Setting name	Description
Common Name Identifier	<p>Enter the identifier for the common name (CN) attribute (also called the CNID) to use as the user name.</p> <p>The identifier is often <code>cn</code> or <code>uid</code>, but varies according to your LDAP directory's schema. For Active Directory, it is often the attribute <code>sAMAccountName</code>.</p> <p>For example, for the default OpenLDAP directory that uses the following user object, the CNID is <code>uid</code>:</p> <pre>uid=hlee,cn=users,dc=example,dc=com</pre>
Distinguished Name	<p>Enter the Base DN from which the LDAP query starts. This DN is the full path in the directory to the user account objects.</p> <p>Examples:</p> <pre>ou=People,dc=example,dc=com</pre> <pre>cn=users,dc=example,dc=com</pre>
Bind Type	<p>Select one of the following LDAP query binding styles:</p> <ul style="list-style-type: none"> • Simple — Bind using the client-supplied password and a bind DN assembled from the Common Name Identifier, Distinguished Name, and the client-supplied user name. • Regular — Bind using a bind DN and password that you configure in User DN and Password. • Anonymous — Do not provide a bind DN or password. Instead, perform the query without authenticating. Select this option only if the LDAP directory supports anonymous queries.
User DN	<p>Enter the bind DN of an LDAP user account with permissions to query the Distinguished Name.</p> <p>For example:</p> <pre>cn=FortiWebA,dc=example,dc=com</pre> <p>For Active Directory, the UPN (User Principle Name) is often used instead of a bind DN (for example, <code>user@domain.com</code>).</p> <p>The maximum length is 255 characters.</p> <p>This field can be optional if your LDAP server does not require FortiWeb Manager to authenticate when it performs queries.</p> <p>Available only when Bind Type is Regular.</p>

Setting name	Description
Password	<p>Enter the password for the specified User DN.</p> <p>This field can be optional if your LDAP server does not require FortiWeb Manager to authenticate when it performs queries.</p> <p>Available only when Bind Type is Regular.</p>
Filter	<p>Enter an LDAP query filter string that filters the query's results based on any attribute in the record set.</p> <p>For example:</p> <pre>(&(!(objectClass=user)(objectClass=group) (objectClass=publicFolder)))</pre> <p>This filter improves the speed and efficiency of the queries.</p> <p>For syntax, see an LDAP query filter reference. If you do not want to exclude any accounts from the query, leave this setting blank.</p> <p>The maximum length is 255 characters.</p> <p>Available only when Bind Type is Regular.</p>
Group Authentication	<p>Specifies whether only members of the LDAP group specified by Group DN can authenticate. Users that are not members of that group are not allowed to authenticate. Also configure Group Type and Group DN.</p> <p>This option appears only when Bind Type is Regular.</p>
Group Type	<p>Select the schema of your LDAP directory:</p> <ul style="list-style-type: none"> • OpenLDAP — The directory uses a schema where each user object's group membership is recorded in the <code>gidNumber</code> attribute. This is usually an OpenLDAP directory, or another directory where the object class is <code>inetOrgPerson</code> or <code>posixAccount</code>. • Windows-AD — The directory uses a schema where each user object's group membership is recorded in the <code>memberOf</code> attribute. This is usually a Microsoft Active Directory server. • eDirectory — The directory uses a schema where each user object's group membership is recorded in the <code>groupMembership</code> attribute. This is usually a Novell eDirectory server. <p>Group membership attributes may have different names depending on the LDAP directory schemas. The FortiWeb appliance uses the group membership attribute that matches your directory's schema when querying the group DN.</p> <p>Available only when Bind Type is Regular and Group Authentication is enabled.</p>

Setting name	Description
Group DN	<p>Enter the value of the group membership attribute that query results must have in order to be able to authenticate.</p> <p>Your directory's schema determines which value you use. It can be distinguished name such as <code>ou=Groups,dc=example,dc=com</code> or a group ID (GID) such as 100.</p> <p>Available only when Bind Type is Regular and Group Authentication is enabled.</p>
Secure Connection	Select to connect to the LDAP server using an encrypted connection. Also specify Protocol .
Protocol	<p>Select which secure LDAP protocol to use:</p> <ul style="list-style-type: none"> • LDAPS • STARTTLS <p>Available only if Secure Connection is enabled.</p>

RADIUS Server settings

Setting name	Description
Name	Enter a name that identifies this RADIUS communication configuration.
Server IPv4/IPv6	Enter the IP address of the primary RADIUS server.
Server Port	<p>Enter the number of the primary RADIUS server listening port.</p> <p>The default port number is 1812.</p>
Server Secret	<p>Enter the RADIUS server secret key for the primary RADIUS server.</p> <p>The primary server secret key should be a maximum of 16 characters in length.</p>
Secondary Server IPv4/IPv6	Enter the IP address of the secondary RADIUS server, if applicable.
Secondary Server Port	<p>Enter the number of the secondary RADIUS server listening port.</p> <p>The default port number is 1812.</p>
Secondary Server Secret	<p>Enter the RADIUS server secret key for the secondary RADIUS server.</p> <p>The primary server secret key should be a maximum of 16 characters in length.</p>
Authentication Scheme	<p>Do one of the following:</p> <ul style="list-style-type: none"> • Select DEFAULT to authenticate with the default method. The default method uses PAP, MS-CHAP-V2, and CHAP, in that order. • Select MS-CHAP-V2, CHAP, MS-CHAP, or PAP.

Setting name	Description
NAS IP	<p>Enter the NAS IP address and Called Station ID (for more information about RADIUS Attribute 31, see RFC 2548 Microsoft Vendor-specific RADIUS Attributes).</p> <p>If you do not enter an IP address, FortiWeb Manager uses the IP address that it uses to communicate with the RADIUS server.</p>

Logs

Package Install

Each time you install a policy package to a device, FortiWeb Manager adds a new entry to the Package Install log. You can use this log to undo the package installation or download a copy of the current or previous configuration for troubleshooting or backup.

Whenever you install a package, FortiWeb Manager performs a complete backup of the existing configuration. This configuration is the Original Configuration in the Package Install log.

Column name	Description
Package Name	The name of the package in FortiWeb Manager.
Device Name	The name of the device where the package was installed.
Install Time	The time that the package was installed.
Status	The status indicates a failed or a successful package installation. If an installation is abort by clicking the Cancel button (see Package Installation), the status will be failed. You can revert the policies on the target device to last state by clicking the Revert button.
Log Name	Click the value to download the configuration that FortiWeb Manager installed.
Original Configuration	Click the value to download the configuration that FortiWeb Manager replaced with the policy package specified by Log Name .
Comment	Displays any comment you added when you installed the policy package.
Action	<p>Click Revert to re-install the configuration that FortiWeb Manager backed up (saved as the Original Configuration file) before it installed the new policy package.</p> <p>Click Delete to remove this entry from the Package Install log.</p>

Templates Assign

Each time you assign a system template to a device, FortiWeb Manager adds a new entry to the Templates Assign log. You can use this log to undo the template assignment or download a copy of the current or previous settings for troubleshooting or backup.

Whenever you assign a template, FortiWeb Manager performs a complete backup of the existing configuration. This configuration is the Original Configuration in the Templates Assign log.

Column name	Description
Template Name	The name of the system template in FortiWeb Manager.
Device Name	The name of the device the template was assigned to.
Assign Time	The time that the template was assigned.
Log Name	Click the value to download the template that FortiWeb Manager assigned.
Original Configuration	Click the value to download the configuration that FortiWeb Manager replaced with the template specified by Log Name .
Action	Click Revert to revert to the template configuration values that FortiWeb Manager backed up (saved as the Original Configuration file) before it assigned the new template. Click Delete to remove this entry from the Templates Assign log.

Event

On the System Settings tab, go to **Logs > Event** to view a record of user actions such as login, logout, add or delete user, and change password.

Column name	Description
Date	The date that FortiWeb Manager generates the event log on.
Time	The time that FortiWeb Manager generates the event log at.
Level	The level that indicates the importance and priority of the event log.
User	The user who triggers the event log.
Action	The action that a user takes to trigger the event log.
Message	The description of the event log.

Import

Each time you import configurations or template from a device, FortiWeb Manager adds a new entry to the Import log. You can use this log to undo the configurations import.

Whenever you import configurations to an existing policy package, FortiWeb Manager performs a complete backup of the existing policy package. However, FortiWeb Manager will not keep a backup of a provisioning template for a template import.

Column name	Description
Date	The date that FortiWeb Manager generates the import log on.
Time	The time that FortiWeb Manager generates the import log at.
Level	The level that indicates the importance and priority of the import log.
User	The user who triggers the event log.
Action	The action that a user takes to trigger the event log; a template import or a configuration import.
Message	The description of the import log.
Operate	<p>Click Revert to revert the policy package with configuration that FortiWeb Manager backed up before it performs the import.</p> <p>The Revert buttons are not available for template imports and configuration imports with newly-created policy packages.</p>

Add, configure, and provision devices (Device Manager tab)

Add a group

Prepare to add devices to your FortiWeb Manager by creating device groups. These groups allow you to organize your devices in the navigation tree.

To add a group

On the Device Manager tab, click **Add Group** and then complete the following settings:

Name	The name for the FortiWeb Manager device group.
Description	An optional description for the group (for example, a description of its geographic location).

Add a device

Before you add a FortiWeb device to your FortiWeb Manager configuration, ensure that it has the following local configuration:

- The FortiWeb is running the required firmware version. See [Software requirements on page 10](#).
- A network interface that is configured with an IP address that FortiWeb Manager can reach and allows one of the following types administrative access:
 - For versions of FortiWeb previous to 5.6, HTTPS administrative access. (FortiWeb Manager uses HTTPS port 90 to communicate with devices.)
 - For FortiWeb version 5.6 or later, FortiWeb Manager administrative access.
- An administrator account that can access the configuration areas you want to edit using FortiWeb Manager. This account can be `admin`.

Because you specify the group that a device belongs to when you add a device, it is helpful to create the group you want the device to belong to before you add the device.

To add a device

On the Device Manager tab, click **Add Device** and then complete the following settings:

Name	The name for the device in the FortiWeb Manager configuration.
IP Address	The IP address that FortiWeb Manager can use to communicate with the device.

User Name	The name of an administrator account on the device that can access the configuration areas you want to edit using FortiWeb Manager.
Password	The password that corresponds to the specified User Name .
Add to Groups	<ul style="list-style-type: none">• None – The device does not belong to a group.• Specific – The device belongs to the FortiWeb Manager group specified by Group.
Group	The FortiWeb Manager group the device belongs to. Available only if Add to Groups is Specific .
Description	An optional description for the device (for example, a description of its physical location).

Access device configuration

Use the **Devices & Groups** navigation menu to access the configuration settings for an individual device. You can also use this menu to access the status dashboard information and other tasks you perform using the FortiWeb web UI.

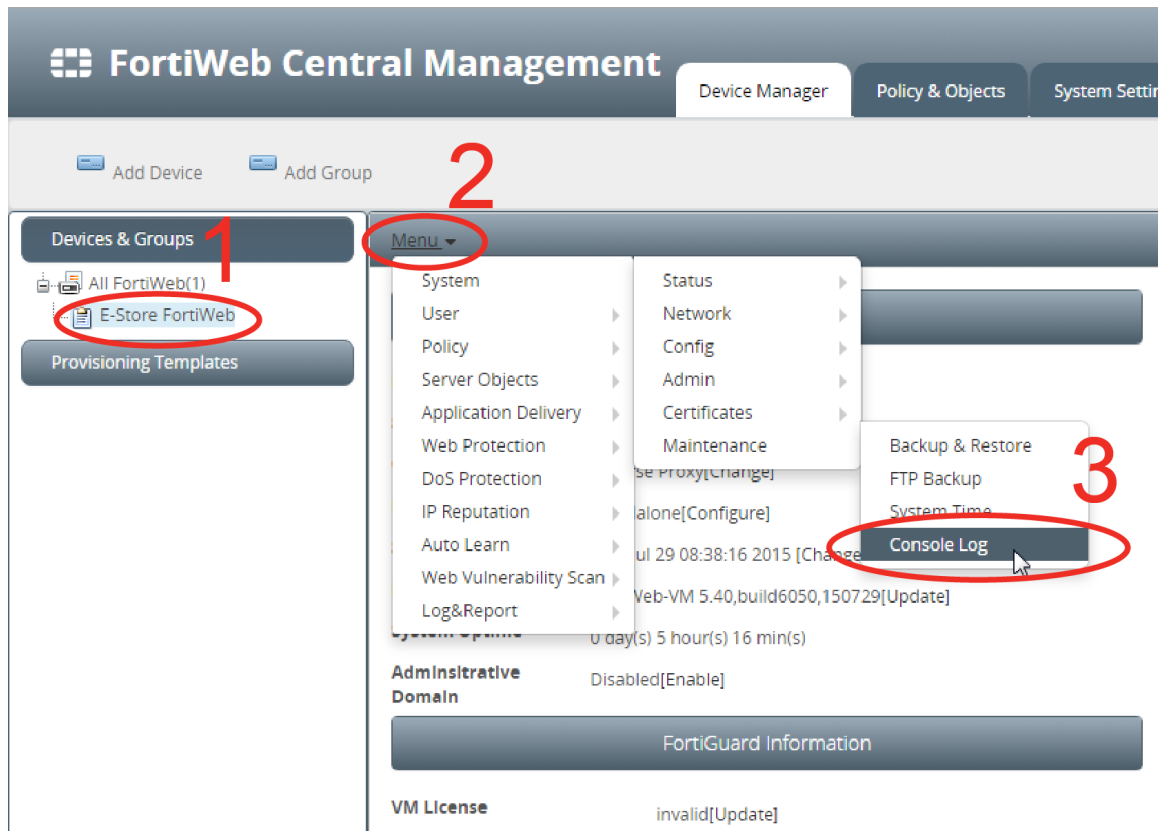
FortiWeb Manager applies any changes you make to the device configuration immediately. And if another administrator makes changes to the device you are viewing, FortiWeb Manager displays those changes the next time it refreshes the view (for example, when you select a different configuration element.)

To access individual configuration settings for a device

1. Under **Devices & Groups**, expand the **All FortiWeb** item.
2. In the list of devices, click the appropriate device.

By default, the content pane displays the status dashboard for the device.

3. In the content pane toolbar, click **Menu**, and then use the menu to select the configuration item you want to view or edit.



Creating and applying provisioning templates

The **Provisioning Templates** navigation menu allows you to add, edit, and apply sets of settings that you use when you initially set up a FortiWeb.

You can edit a template at any time, but FortiWeb Manager does not apply the changes to a device until you apply or reapply the template.

To apply the template settings to a FortiWeb, you first use the **Add Device** option to add it to the device list.

When you apply a template to a device, FortiWeb Manager saves the current system configuration values. If it is unable to apply one or more settings from the template, it restores the values it saved. If successfully applies the template, it saves the original values as a file you can download or restore using the Templates Assign log (see [Templates Assign on page 27](#)).

For descriptions of the template configuration settings, see the [FortiWeb Administration Guide](#).

Task	Instructions
Create a new system template	<ol style="list-style-type: none"> 1. Under Provisioning Templates, right-click any item, and then click Create New. 2. Enter a name and optional description, and then click OK. 3. For each widget, enter appropriate values, and then click Apply. <p>Apply saves values in the template. To apply it to a device, you apply the template to the device.</p>
Add or update settings in the template	Under Provisioning Templates , click the appropriate template, add or edit settings in the appropriate widget, and then click Apply .
Apply system template settings to a FortiWeb	<ol style="list-style-type: none"> 1. Under Provisioning Templates, right-click the template, then click Assign Device. 2. For Devices, select the device you want to apply the template to, and then click OK.
Delete a system template	Under Provisioning Templates , right-click the template, then click Delete .
Revert to the original configuration	<p>Go to Logs > Template Assign, and for the log item for the template assignment, click Revert.</p> <p>For more information, see Templates Assign on page 27.</p>

Upgrading a device group

You can use imported firmware and data analytics definitions files to upgrade all FortiWeb appliances in a group in a single operation.

Before you upgrade using FortiWeb Manager, ensure that the device or devices you want to upgrade are part of a group. (A group can contain a single device.)

When it upgrades a gateway, FortiWeb Manager attempts to update the gateway configuration to match the features of the newer firmware version. It deletes configurations that it cannot successfully update.

You can import firmware images and data analytics from FortiGuard (see [FortiGuard Management](#)) and save them on the FortiWeb Manager for upgrading the FortiWeb appliances. You cannot use the FortiWeb Manager web UI to downgrade device firmware.

Task	Instructions
Upgrade a device group	<ol style="list-style-type: none">1. On the Device Manager tab, in the Devices & Groups tree, right-click the group to upgrade, and then click Upgrade.2. Select Firmware or Data Analytics.3. For Firmware or Data Analytics, select the file you imported earlier.4. Click OK.

Create and install reusable server policies (Policy & Objects tab)

The **Policy & Objects** tab allows you to create, manage and apply the following reusable configuration resources:

- Shared configuration objects such as virtual servers, server pools, and web protection profiles. Server policies in packages reference these objects in server policies, either directly or through other objects. You can reference each configuration object in multiple policies and objects. You can't delete an object if it is referenced by a policy or another object.
- Policy packages that contain one or more server policies and apply to a specified operating mode. These server policies use the predefined configuration objects.

Package installation

When your policy package is complete, you can install it on a FortiWeb from the FortiWeb Manager device list. For each policy package, FortiWeb Manager maintains a list of the installation instances.

When you install a policy package on a device, FortiWeb Manager saves the current values of all server policies and related objects on the target appliance. If FortiWeb Manager successfully installs the package, it saves the original configuration as a file you can download or restore using the Package Install log (see [Package Install on page 26](#)). If the installation is unsuccessful, it restores the values it saved.

FortiWeb Manager only installs the reusable configuration objects that are referenced by policies in the package. However, to avoid possible conflicts, it deletes all configuration objects from the target FortiWeb, even if they are not referenced by a policy.

Interaction

During a policy package installation, FortiWeb Manager will instantly respond messages to you if any error is detected. The errors that might fail the installation include:

- An entry (entry name) of the policy package already exists on the target device.
- The policy package contains invalid configuration values, such as a out-of-range value, an un-allowed blank value or a value in incorrect format.

After the error message responds, you can either cancel the installation (by clicking the Cancel button) or address the error legitimately to continue the installation. Actions that you can take to address the problems are:

For the conflict that a entry of the policy package already exists on the target device, three actions are available for your options:

Actions	Descriptions
Use a New ID	<p>Select to assign the current entry a different name (input the new name in New Item Name field) and continue to install it to the target device.</p> <p>After the entry is installed on the target device with a different name, all the configuration references to the entry that originally exists will be pointed to the new one.</p>
Overwrite the device's configure	Select to replace the old entry of the same name (already exists on the target device) with the current entry.
Use device's configure	Select to ignore the entry and continue the installation. There is no change made to the entry of the same name on the target device.

For the error that configuration value is invalid, an edit panel will displayed for you to correct it. A prompt message indicates the details of the error and you can input a correct value in the panel to the configuration. After this, installation continues with the new configuration value.

Once you abort the installation by clicking the Cancel button (during the installation), you can revert the target device to last states through the Package Install log (see [Package Install on page 26](#)).

Note that during the installation, please make sure there are no other administrators concurrently making changes to configurations of the target device through its Web UI or CLI.

Editing packages

You can edit a policy package at any time, but FortiWeb Manager does not apply the changes until you install or reinstall the package.

Task	Instructions
Create configuration objects	<ol style="list-style-type: none"> 1. On the Policy & Objects tab, under Objects, expand the navigation tree items until the type of object you want to create is displayed, and then click it. 2. In the content pane, click Create New. 3. Complete the settings for the new object, and then click OK.
<p>Please note that the Objects tab is simply an object pool which stores all the policy objects that you've created through FortiWeb Manager or imported from FortiWeb appliances (because when you import policy packages from FortiWeb appliances, all the policy objects of the policy packages are stored in the Object tab). The Objects tab displays no relationship between the objects and specific FortiWeb appliances. All the policy objects listed in the Objects tab are the options which you can choose from when creating a new policy on FortiWeb Manager.</p>	

Task	Instructions
Create a new policy package	<ol style="list-style-type: none"> 1. Click Policy Package > Create New. 2. Enter a name for the package, select an operating mode, and then click Apply.
Add a policy to a policy package	<ol style="list-style-type: none"> 1. Ensure that you have added the configuration objects that the policy uses to the list of objects. 2. Under Policy Package, select the package to add the policy to. 3. In the Policy & Objects toolbar, click Policy > Create New. 4. Complete the settings for the policy, and then click Apply.
Install a policy package on a FortiWeb	<ol style="list-style-type: none"> 1. Under Policy Package, right-click the package to install, and then click Install Wizard. 2. Select the appropriate device, enter an optional comment, and then OK.
Revert to the original configuration	<p>Go to Logs > Package Install, and for the package installation log item, click Revert.</p> <p>For more information, see Package Install on page 26.</p>

Per-Device Mapping in Interface

Configurations of some FortiWeb Manager's objects contain information of device network interfaces. However, it is impossible to applied a common template to multiple devices for various FortiWeb models, since the physical network interfaces vary depending on the models. FortiWeb Manager's interface objects contain the mappings between a logical interface and physical device interface. By referring the interface object, a common template can so that be applied to various models. You configure the interface settings with a interface object (the logical interface) for other objects, and the interface settings will be transferred to a physical device interface according the mappings of the interface object when the objects (of a policy package) are installed to the device.

Task	Instructions
Create an interface object	<ol style="list-style-type: none"> 1. On the Policy & Objects tab, under Objects, expand the navigation tree items. Go to System > Network > Interface, and click it. 2. In the content pane, click Create. 3. Assign the name to the interface object. This is the logical interface name that can be used by other objects. 4. Add dynamic mappings to the interface object. For each dynamic mapping, you are required to select a device from the Mapped Device drop-down menu and a physical interface of the device from the Interface drop-down menu. 5. Complete the settings for the new object, and then click OK.
Edit a interface object	<ol style="list-style-type: none"> 1. On the Policy & Objects tab, under Objects, expand the navigation tree items. Go to System > Network > Interface, and click it. 2. In the content pane, click Edit button of a interface object.

Created interface objects are list in the table as followings:

Fields	Descriptions
Interface	Name of the interface object, the logical interface.
Per-Device Mapping	Number of the mappings that the interface object contains.
Action	<p>Click Edit to configure the interface object.</p> <p>Click Delete the remove the interface object.</p>

Import configurations or template from FortiWeb

Import configurations from FortiWeb

To import configurations from a FortiWeb, you need to specify the FortiWeb device and a policy package on your FortiWeb Manager. The imported configurations will be saved in the specified policy package. There are three paths available for you to start the import:

Task	Instructions
Open the Import Wizard with a specified device	<ol style="list-style-type: none"> 1. On the Device Manager tab, under Devices & Groups, expand the navigation tree items. 2. Give a right-click on the device that you want to import the configurations from. 3. Select Import Package from the menu.
Open the Import Wizard with a specified policy package	<ol style="list-style-type: none"> 1. On the Policy & Objects tab, under Policy Package, expand the navigation tree items. 2. Give a right-click on the policy package that you want to save the imported configurations to. 3. Select Import from the menu.
Open the Import Wizard without specification	<ol style="list-style-type: none"> 1. On the Policy & Objects tab, click Policy Package to expand the drop-down menu. 2. Select Import from the menu.

Any of the three paths directs you to a Import Wizard to start the import. The wizard will direct you to complete the import by following the instructions:

Import Setting

Fields	Descriptions
From Device	Select the device that you want to import the configurations from. The value will be invariable if you start the wizard by right-clicking on a specific device in sub-menu Device & Groups .

Fields	Descriptions
Create Type	<p>Two types are available for your options.</p> <ul style="list-style-type: none"> • Create: Create a new policy package to save the imported configurations. Input the name for the new policy package in the next field Policy Package. This option will be unavailable if you start the wizard by right-clicking on a specific policy package in sub-menu Policy Package. • Merge: Merge the imported configurations to an existing policy package. Specify the policy package for merging in the next field Policy Package.
Policy Package	<p>Enter a new name to create a new policy package if you select Create for Create Type, or specify a existing policy package by entering its name if you select Merge for Create Type.</p>
Import Type	<p>Two types are available for your options.</p> <ul style="list-style-type: none"> • Import All: Select to import all the policies of the policy package from the device. • Select Policies to Import: Select to open a list of all the policies of the policy package of the device, and select particular policies that you want to import.
Object Selection	<p>Two types are available for your options.</p> <ul style="list-style-type: none"> • Import all objects: Select to import all the objects of the policy package from the device. • Import only Policy dependent objects: Select to import only the objects that are referred by policies.

Interface Mapping

The import procedure requires you to set the mappings between physical interfaces of device that you are importing from and FortiWeb Manager's interface objects (logical interfaces), see [Per-Device Mapping in Interface](#).

Fields	Descriptions
Device Interface	<p>The physical interfaces of the device that you are importing from.</p>
FWM Interface	<p>Enter a interface object name to map the device interface to the logical interface. The mapping will be added to the interface object if the object already exists, otherwise, a new interface object will be created for the mapping.</p>

Interaction

During the configurations being imported (merged) to an existing policy package, FortiWeb Manager will instantly respond messages to you if an entry (entry name) of the imported configurations already exists in the policy package. you can either cancel the import (by clicking the Cancel button) or give an instruction to continue importing. The instructions that you can give are:

Actions	Descriptions
Rename	<p>Select to assign the current entry a different name (input the new name in New Item Name field) and continue to import it to the target policy package.</p> <p>After the entry is imported on FortiWeb Manager with a different name, all the configuration references to the entry that originally exists will be pointed to the new one.</p>
Using New	Select to replace the old entry of the same name (already exists in the target policy package) with the current entry.
Using Old	Select to ignore the entry and continue importing. There is no change made to the entry of the same name in the target policy package.

Once you abort the import by clicking the Cancel button (during the import), you can revert the target policy package to last states through the Import log (see [Import Log](#)).

Import templates from FortiWeb

To import template from a FortiWeb, you need to specify the FortiWeb device and a provisioning template on your FortiWeb Manager. The imported template will be saved in the specified provisioning template. There are two paths available for you to start the import:

- Go to **Device Manager**, in the sub-menu **Devices & Groups**, select the device that you want to import the template from, and give a right-click on the device to display the operation list. Select **Import Template** from the list.
- Go to **Device Manager**, in the sub-menu **Provisioning Template**, select the provisioning template that you want save the imported template to, and give a right-click on the template to display the operation list. Select **Create From Device** from the list.

Task	Instructions
Open the Import Wizard with a specified device	<ol style="list-style-type: none"> On the Device Manager tab, under Devices & Groups, expand the navigation tree items. Give a right-click on the device that you want to import the template from. Select Import Template from the menu.

Task	Instructions
Open the Import Wizard with a specified provisioning template	<ol style="list-style-type: none">1. On the Policy & Objects tab, under Provisioning Template, expand the navigation tree items.2. Give a right-click on the provisioning template that you want to save the imported configurations to.3. Select Create From Device from the menu.

Any of the two paths directs you to a Import Wizard to start the import and require you to configure the import settings in the Import Wizard. If the configurations are imported to an existing provisioning template, the original configurations in the provisioning template will be overwrite.

Note that FortiWeb Manager keeps logs for template imports (see [Import Log](#)), but revert function is not available for the template imports. Once an existing provisioning template is overwrite by imported configurations, there is no way to revert it to last status. You are suggested to create a new provisioning template to save the imported configurations if you do not overwrite any existing provisioning template for the import.

FortiGuard Management

FortiWeb Manager's FortiGuard Management provides the interfaces for you to get license information of the managed FortiWeb devices, firmware images and data analytics from FortiGuard, so that you can perform license, firmware and data analytics updates to multiple devices. Click the FortiGuard tab on the header bar and you can see the three items in the left menu FortiGuard Management:

- Licensing Status
- Firmware Images
- Data Analytics

License Status

Go to **FortiGuard (tab on the header bar) > FortiGuard Management > Licensing Status**, FortiWeb Manager will get the license information of each FortiWeb device that is added in Device Manager (see [Device Manager](#)) from FortiGuard. The license information is listed as followings:

Column name	Description
Device Name	The device managed by Device Manager.
Security Service	License status of security service of the device.
Antivirus Service	License status of antivirus service of the device.
IP Reputation Service	License status of IP reputation service of the device.
Support Contract	License status of support contract of the device.
Action	Click Update to push the FortiWeb device to get the latest services from FortiGuard for updating. This button performs the same function as button Update Now in page System > Config > FortiGuard of a FortiWeb's Web UI.

You can click the **Refresh** button on the upper left to refresh license status for all the devices.

Firmware Images

Go to **FortiGuard (tab on the header bar) > FortiGuard Management > Firmware Images**, you can import FortiWeb's firmware images from FortiGuard and manage the firmware images on your FortiWeb Manager. Click the **Import** button on the upper left to import firmware images from FortiGuard. The imported images are listed as followings:

Column name	Description
Name	The name that you specify to the firmware image while importing.
Model	Model of the firmware image.
Version	Version of the firmware image.
Build	Build number of the firmware image.
Date	The date that the firmware image is built on.
File Name	File name of the firmware image.
Action	Click Delete button to delete the firmware image from the FortiWeb Manager.

The imported firmware images are saved on your FortiWeb Manager for upgrading the managed FortiWeb devices (see [Upgrading a device group](#)).

Data Analytics

Go to **FortiGuard (tab on the header bar) > FortiGuard Management > Data Analytics**, you can import FortiWeb's data analytics from FortiGuard and manage the analytics files on your FortiWeb Manager. Click the **Import** button on the upper left to import data analytics files from FortiGuard. The imported files are listed as followings:

Column name	Description
Name	The name that you specify to the data analytics while importing.
File Name	File name of the data analytics.
Action	Click Delete button to delete the data analytics file from the FortiWeb Manager.

The imported data analytics files are saved on your FortiWeb Manager for upgrading the managed FortiWeb devices (see [Upgrading a device group](#)).



High Performance Network Security



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